



US Army Corps
of Engineers
St. Paul District

Information Paper

Dam Safety – Mississippi River: Pine River Dam, Crosslake, Minnesota



Pine River Dam is located in the community of Crosslake, Minn.

Contact

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Location/Description

Pine River Dam is on Pine River at the outlet of Cross Lake, which is the lowest among the interconnected Whitefish chain of lakes (which also include Dagget Lake, Rush Lake, Upper and Lower Whitefish lakes, Pig Lake, Clamshell Lake and Big Trout Lake). The dam is 16 river miles above the confluence of the Pine and Mississippi Rivers, and 199 river miles north of St. Paul. The dam is located in the community of Crosslake. The existing project features a concrete spillway, a 1,100-foot-long earthen embankment that ties the spillway to high ground and sixteen earthen dikes located around the perimeter of the reservoir. Stage 1 entails work on the spillway and main embankment. Stage 2 entails work on the perimeter dikes.

Status

Stage 1: Construction started in June 1999 and will continue through April 2002.

Stage 2: Construction started in October 2000 and will be complete by 30 September 2001.

Additional

It was estimated that 143 lives would be threatened and 29 lives lost if Pine River Dam were to fail at its present capacity. The areas suffering the most casualties would be around Big Pine and Greer lakes downstream of the dam. Increasing the capacity of the spillway to 70 percent of the PMF reduces this threat to near zero.

The Stage 2 dike repairs required some filling of wetlands to stabilize Dikes 13 and 14. The St. Paul District has mitigated the lost wetlands at a 3:1 replacement ratio.

Authority

River and Harbor Acts of June 14, 1880 and August 2, 1882

Fiscal

Project design and construction costs are 100 percent federal. Operation and maintenance costs are 100 percent federal.

Estimated Federal Cost	\$10,200,000
Estimated Non-Federal Cost	0
Total Estimated Cost	\$10,200,000